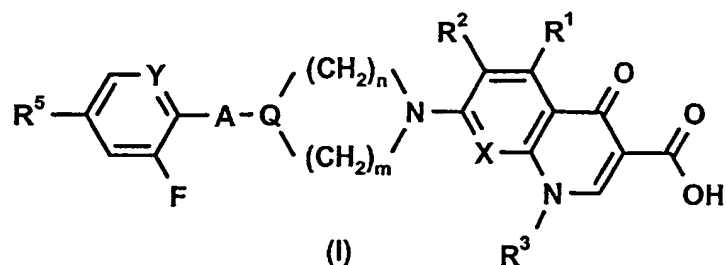


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## Claims

1. Compounds of formula (I)



5 wherein

A is an alkylene group, an alkenylene group, an  
alkynylene group, a heteroalkylene group, a  
cycloalkylene group, a heterocycloalkylene group, an  
10 arylene group or a heteroarylene group all of which  
groups may be substituted;

Q is CR<sup>4</sup> or N;

15 X is CR<sup>7</sup> or N;

Y is CR<sup>6</sup> or N;

n is 1, 2 or 3;

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m is 1, 2 or 3;

R<sup>1</sup> is H, F, Cl, Br, I, OH, NH<sub>2</sub>, an alkyl group or a  
heteroalkyl group;

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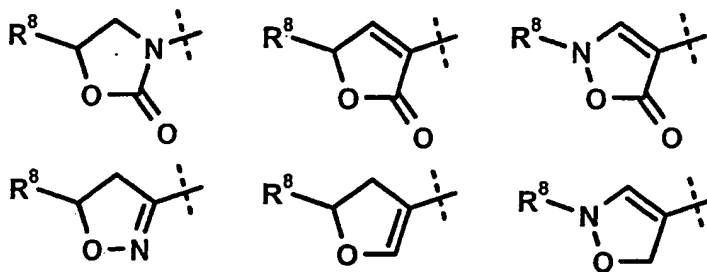
R<sup>2</sup> is H, F or Cl;

R<sup>3</sup> is H, an alkyl group, an alkenyl group, an alkynyl group, a heteroalkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, an alkylaryl group or a heteroarylalkyl group;  
 5 all of which groups may be substituted with one, two or more halogen atoms or amino groups;

R<sup>4</sup> is hydroxy, a group of formula OPO<sub>3</sub>R<sup>9</sup>, or OSO<sub>3</sub>R<sup>10</sup> or a heteroalkyl group carrying at least one OH, NH<sub>2</sub>, SO<sub>3</sub>R<sup>10</sup>,  
 10 PO<sub>3</sub>R<sup>9</sup>, or COOH group or an ester of a naturally occurring amino acid or a derivative thereof, wherein the groups R<sup>9</sup> independently of each other are H, alkyl, cycloalkyl, aryl or aralkyl and wherein R<sup>10</sup> is H, alkyl, cycloalkyl, aryl or aralkyl;

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R<sup>5</sup> is selected from the following groups:



R<sup>6</sup> is H, F, Cl or OMe;

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R<sup>7</sup> is H, F, Cl, OH, NH<sub>2</sub>, a substituted or unsubstituted alkyl group or a substituted or unsubstituted heteroalkyl group, or

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R<sup>3</sup> and R<sup>7</sup> can be linked via an alkylene, an alkenylene or a heteroalkylene group or be a part of a cycloalkylene or heterocycloalkylene group; in case R<sup>3</sup> is no H and R<sup>7</sup> is no H, F, OH, NH<sub>2</sub> or Cl; and

R<sup>8</sup> is a C<sub>1-6</sub> heteroalkyl, a heteroarylalkyl, a heteroalkylaryl or a heteroalkylheteroaryl group;

5 or a pharmacologically acceptable salt, solvate, hydrate or formulation thereof.

2. Compounds according to claim 1, wherein R<sup>1</sup> is H.

10 3. Compounds according to claim 1 or 2, wherein R<sup>2</sup> is F or H.

4. Compounds according to any one of claims 1 to 3, wherein R<sup>3</sup> is an ethyl, a 2-propyl, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl, a phenyl or a pyridyl group; all of which may be substituted with one, two, three or more fluorine atoms or amino groups.

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5. Compounds according to any one of claims 1 to 4, wherein R<sup>3</sup> is a cyclopropyl group.

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6. Compounds according to any one of claims 1 to 3, wherein R<sup>7</sup> and R<sup>3</sup> together form a bridge of the formula -O-CH<sub>2</sub>-N(Me)- or -O-CH<sub>2</sub>-CH(Me)-, wherein the preferred stereochemistry at the chiral center is the one giving the (S) configuration in the final compound.

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7. Compounds according to any one of claims 1 to 5, wherein R<sup>7</sup> is H, F, Cl or a methoxy group which may be substituted by one, two or three fluorine atoms.

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8. Compounds according to any one of claims 1 to 5, wherein X is N or CH.

9. Compounds according to any one of claims 1 to 8,  
wherein  $R^4$  is hydroxy or a group of formula  $OSO_3H$ ,  
 $OPO_3H_2$ ,  $OCH_2OPO_3H_2$ ,  $OCOCH_2CH_2COOH$  or an ester of a  
5 naturally occurring amino acid or a derivative  
thereof.
10. Compounds according to any one of claims 1 to 9,  
wherein  $R^8$  is a group of the formula  $-CH_2NHCOCH=CHAr^{yl}$ ,  
10  $-CH_2OHeteroaryl$ ,  $-CH_2NHOSO_2Me$ ,  $-CH_2NHCOOMe$ ,  $-CH_2NHCOMe$ ,  
 $-CH_2NHCS_2Me$ ,  $-CH_2NHCSMe$ ,  $-CH_2NHCSNH_2$ ,  $-CH_2NHCSOMe$  or  
 $-NHCOMe$ .
11. Compounds according to any one of claims 1 to 10,  
15 wherein  $R^5$  has the following structure:
- CC(=O)NCC1OC(=O)N1
12. Compounds according to any one of claims 1 to 11,  
wherein Y is CH or N.
- 20 13. Compounds according to any one of claims 1 to 12,  
wherein A is  $C_{1-6}$  alkylene,  $C_{2-6}$  alkenylene,  $C_{2-6}$   
alkynylene,  $C_{1-6}$  heteroalkylene, cyclopropylene,  
epoxide, aziridine, thioepoxide, lactame or lactone,  
25 all of which groups may be substituted.
14. Compounds according to any one of claims 1 to 12,  
wherein A is a group of formula  $-CH_2CH_2-$ ,  $-OCH_2-$ ,  
 $-OCH_2CH_2-$ ,  $-SCH_2-$ ,  $-SCH_2CH_2-$ ,  $-CH=CH-$ ,  $-C\equiv C-$ , -  
30  $CH(OH)CH(OH)-$  or  $-CH(NH_2)CH(OH)-$ .

15. A mono, di or tri sodium salt of a compound of formula (I) according to any one of claims 1 to 14, or mixtures thereof, especially a mono, di or tri sodium salt of a compound of formula (I), wherein  $R^4$  is  $OPO_3H_2$  or  $OSO_3H$  or mixtures thereof.
16. Pharmaceutical compositions containing a compound according to any one of Claims 1 to 15 and optionally carriers and/or adjuvants and/or diluents.
17. Pro-drugs, which contain a compound according to any one of Claims 1 to 16 and at least one pharmacologically acceptable protective group.
18. Use of a compound, a pharmaceutical composition or a pro-drug according to any one of Claims 1 to 17 for the manufacture of medicaments for the treatment of bacterial infections.